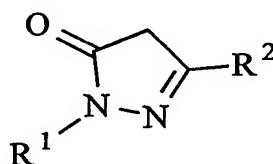


- 33 -

**WHAT IS CLAIMED:**

1. A method of treating an inflammatory disorder in a subject comprising:

administering to a subject an effective amount of a  
 5 compound selected from the group consisting of (1) a compound having the formula:



wherein:

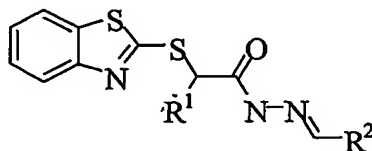
R<sup>1</sup> is selected from the group consisting of:

10 H;  
 substituted or unsubstituted phenyl, and  
 substituted or unsubstituted naphthalene;

R<sup>2</sup> is selected from the group consisting of:

H;  
 15 C<sub>1</sub>-C<sub>4</sub> alkyl;  
 substituted or unsubstituted phenyl;  
 NH<sub>2</sub>;  
 CH<sub>2</sub>COOCH<sub>2</sub>CH<sub>3</sub>, and  
 COOCH<sub>2</sub>CH<sub>3</sub>;

20 (2) a compound having the formula:



wherein:

- 34 -

$R^1$  is selected from the group consisting of:

H and

$C_1$ - $C_4$  alkyl;

$R^2$  is selected from the group consisting of:

5

$C_1$ - $C_4$  alkyl;

substituted or unsubstituted phenyl;

substituted or unsubstituted furan;

substituted or unsubstituted cyclohexyl;

substituted or unsubstituted naphthalene;

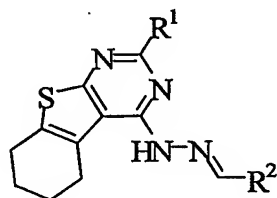
10

substituted or unsubstituted indol;

substituted or unsubstituted pyridine, and

substituted or unsubstituted thiophene;

(3) a compound having the formula:



15 wherein:

$R^1$  is selected from the group consisting of:

H and

$C_1$ - $C_4$  alkyl;

$R^2$  is selected from the group consisting of:

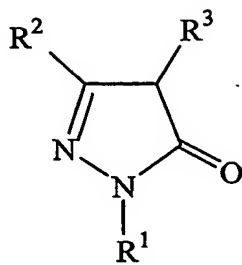
20

substituted or unsubstituted pyridine and

substituted or unsubstituted phenyl;

(4) a compound having the formula:

- 35 -



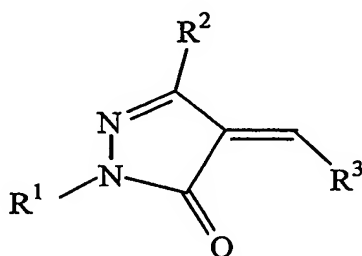
wherein:

R<sup>1</sup> is substituted or unsubstituted phenyl;

R<sup>2</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl;

5 R<sup>3</sup> is substituted or unsubstituted quinoline with or without a linking group;

and (5) a compound having the formula:



10 wherein:

R<sup>1</sup> is substituted or unsubstituted phenyl;

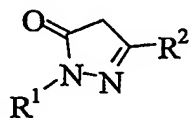
R<sup>2</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sup>3</sup> is substituted or unsubstituted benzoylhydrazino;

thereby treating the inflammatory disorder in the subject.

15

2. The method according to claim 1, wherein the compound has the formula:



wherein:

- 36 -

$R^1$  is selected from the group consisting of:

H;

substituted or unsubstituted phenyl, and

substituted or unsubstituted naphthalene;

5  $R^2$  is selected from the group consisting of:

H;

$C_1$ - $C_4$  alkyl;

substituted or unsubstituted phenyl,

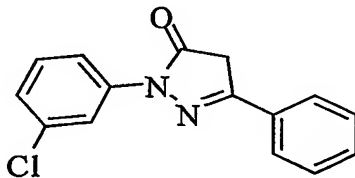
$NH_2$ ;

10  $CH_2COOCH_2CH_3$ , and

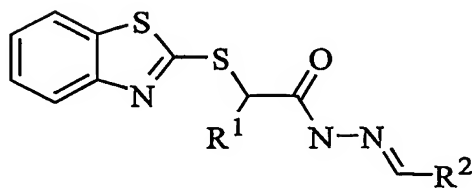
$COOCH_2CH_3$ .

3. The method according to claim 2, wherein the compound has the formula:

15



4. The method according to claim 1, wherein the compound has the formula:



20

wherein:

$R^1$  is selected from the group consisting of:

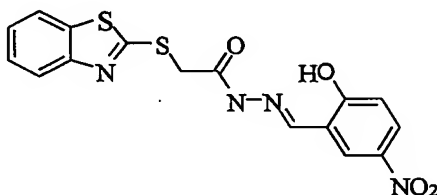
H and  $C_1$ - $C_4$  alkyl;

- 37 -

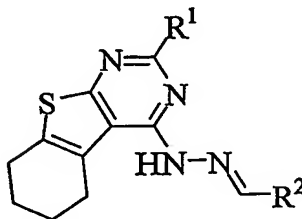
$R^2$  is selected from the group consisting of:

$C_1$ - $C_4$  alkyl;  
 substituted or unsubstituted phenyl;  
 substituted or unsubstituted furan;  
 substituted or unsubstituted cyclohexyl;  
 substituted or unsubstituted naphthalene;  
 substituted or unsubstituted indol;  
 substituted or unsubstituted pyridine, and  
 substituted or unsubstituted thiophene.

5. The method according to claim 4, wherein the compound has the formula:



6. The method according to claim 1, wherein the compound has the formula:



wherein:

$R^1$  is selected from the group consisting of:

- 38 -

H and

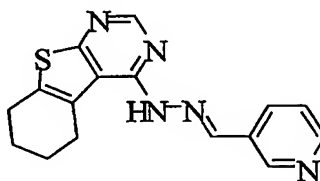
C<sub>1</sub>-C<sub>4</sub> alkyl;R<sup>2</sup> is selected from the group consisting of:

substituted or unsubstituted pyridine and

5

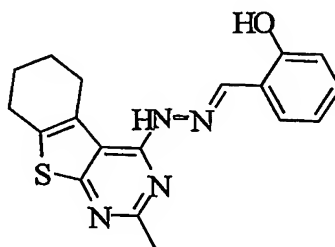
substituted or unsubstituted phenyl.

7. The method according to claim 6, wherein the compound has the formula:



10

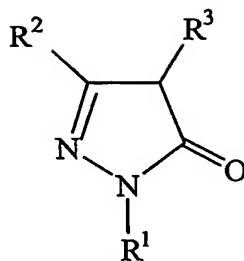
8. The method according to claim 6, wherein the compound has the formula:



15

9. The method according to claim 1, wherein the compound has the formula:

- 39 -



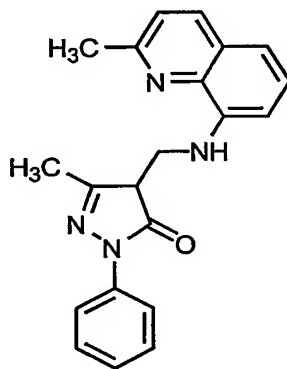
wherein:

$R^1$  is substituted or unsubstituted phenyl;

$R^2$  is  $C_1$ - $C_4$  alkyl; and

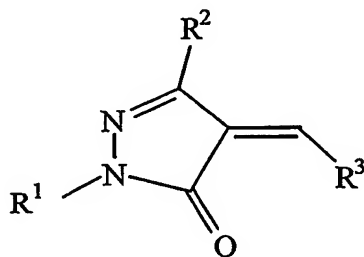
5  $R^3$  is substituted or unsubstituted quinoline with or without a linking group.

10. The method according to claim 9, wherein the compound has the formula:



10

11. The method according to claim 1, wherein the compound has the formula:



15

wherein:

$R^1$  is substituted or unsubstituted phenyl;

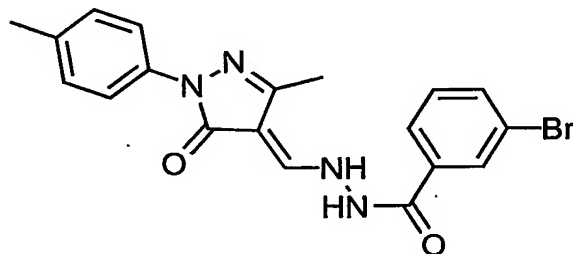
$R^2$  is  $C_1$ - $C_4$  alkyl; and

- 40 -

$R^3$  is substituted or unsubstituted benzoylhydrazino.

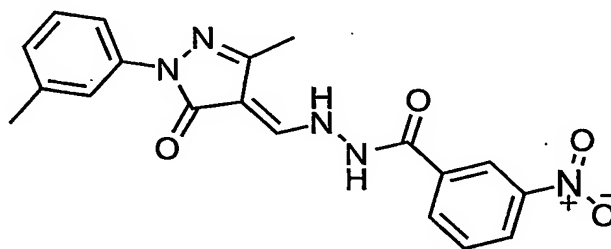
12. The method according to claim 11, wherein the compound has the formula:

5



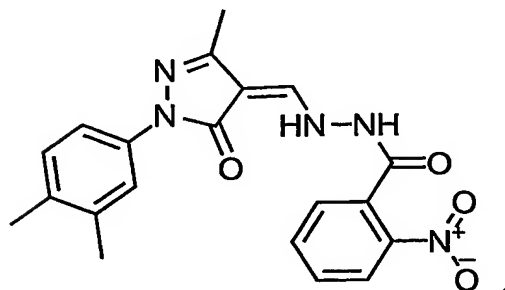
13. The method according to claim 11, wherein the compound has the formula:

10



14. The method according to claim 11, wherein the compound has the formula:

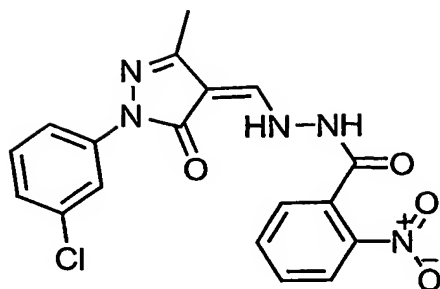
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15. The method according to claim 11, wherein the compound has the formula:

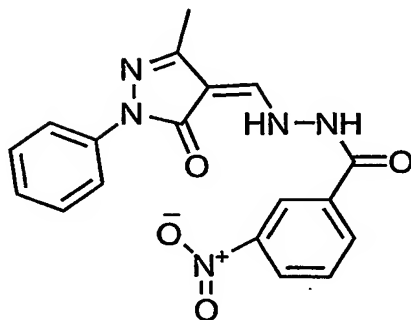


- 41 -



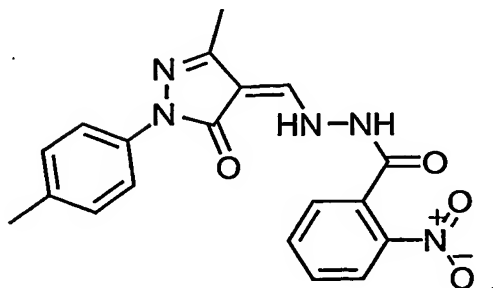
16. The method according to claim 11, wherein the compound has the formula:

5



17. The method according to claim 11, wherein the compound has the formula:

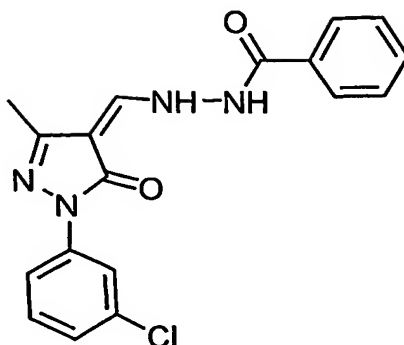
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18. The method according to claim 11, wherein the compound has the formula:

15

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19. The method according to claim 1, wherein the compound is administered as part of a composition further comprising a pharmaceutically-  
5 acceptable carrier.

20. The method according to claim 1, wherein said administering is carried out orally, parenterally, subcutaneously, intravenously, intramuscularly, intraperitoneally, by intravesical instillation, by intracavitary,  
10 intraocularly, intraarterially, intralesionally, transdermally, or by application to mucous membrane.

21. The method according to claim 1, wherein the inflammatory disorder is selected from the group consisting of ischemia-  
15 reperfusion injury, occlusive and embolic stroke, myocardial infarction, type I diabetes mellitus, asthma, chronic obstructive pulmonary disease, gout, pre-term labor, sarcoidosis, ulcerative colitis, rheumatoid arthritis, osteoarthritis, xenograft rejection, Hashimoto's thyroiditis, ankylosing spondylitis, psoriasis, pemphigus, chronic obstructive pulmonary disease, systemic lupus erythematosus, atopic  
20 dermatitis, vasculitides, Wegener's Syndrome, Goodpasture's Syndrome, giant cell arteritis, polyarteritis nodosa, multiple sclerosis, Alzheimer's Disease, Crohn's Disease regional enteritis, sepsis syndrome, post-streptococcal glomerulonephritis, hepatitis C, *Neisserial* or *Pneumococcal* meningitis, *Helicobacter pylori* gastritis, influenza virus pneumonia, tuberculosis, tuberculoid  
25 leprosy, filariasis, cystic fibrosis, bacterial dysentery, Chagas Disease (*Trypanosoma cruzi*), schistosomiasis, idiopathic pulmonary fibrosis, hepatic

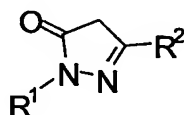
- 43 -

cirrhosis, radiation-induced pulmonary fibrosis, chronic allograft rejection, and bleomycin-induced pulmonary fibrosis.

22. The method according to claim 1, wherein the subject is a  
5 mammal.

23. The method according to claim 22, wherein the mammal is a human.

24. A method of inhibiting respiratory burst in adherent  
neutrophils without inhibiting neutrophil degranulation in or bacterial killing by  
neutrophils, said method comprising:  
contacting adherent neutrophils with an effective amount a  
chemical compound selected from the group consisting of (1) a compound having  
15 the formula:



wherein:

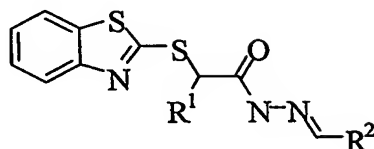
R<sup>1</sup> is selected from the group consisting of:  
20 H;  
substituted or unsubstituted phenyl, and  
substituted or unsubstituted naphthalene;

R<sup>2</sup> is selected from the group consisting of:  
H;  
25 C<sub>1</sub>-C<sub>4</sub> alkyl;  
substituted or unsubstituted phenyl;  
NH<sub>2</sub>;  
CH<sub>2</sub>COOCH<sub>2</sub>CH<sub>3</sub>, and

- 44 -

COOCH<sub>2</sub>CH<sub>3</sub>;

(2) a compound having the formula:



5    wherein:

R<sup>1</sup> is selected from the group consisting of:

H and

C<sub>1</sub>-C<sub>4</sub> alkyl;R<sup>2</sup> is selected from the group consisting of:

10

C<sub>1</sub>-C<sub>4</sub> alkyl;

substituted or unsubstituted phenyl;

substituted or unsubstituted furan;

substituted or unsubstituted cyclohexyl;

substituted or unsubstituted naphthalene;

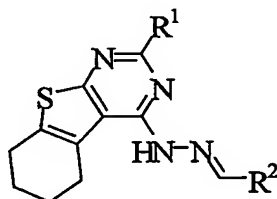
15

substituted or unsubstituted indol;

substituted or unsubstituted pyridine; and

substituted or unsubstituted thiophene;

(3) a compound having the formula:



20    wherein:

R<sup>1</sup> is selected from the group consisting of:H and C<sub>1</sub>-C<sub>4</sub> alkyl;

- 45 -

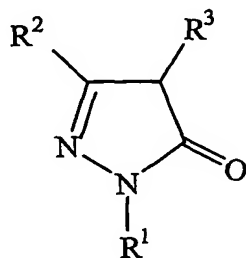
$R^2$  is selected from the group consisting of:

substituted or unsubstituted pyridine; and

substituted or unsubstituted phenyl;

(4) a compound having the formula:

5



wherein:

$R^1$  is substituted or unsubstituted phenyl;

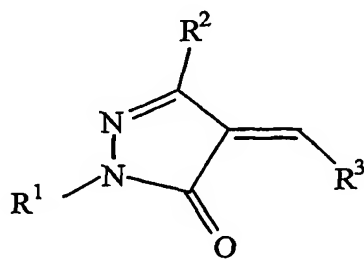
10

$R^2$  is  $C_1$ - $C_4$  alkyl;

$R^3$  is substituted or unsubstituted quinoline with or without a linking group;

and (5) a compound having the formula:

15



wherein:

$R^1$  is substituted or unsubstituted phenyl;

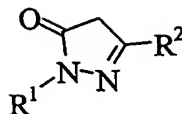
$R^2$  is  $C_1$ - $C_4$  alkyl; and

$R^3$  is substituted or unsubstituted benzoylhydrazino.

20

25. The method according to claim 24, wherein the compound has the formula:

- 46 -



wherein:

$R^1$  is selected from the group consisting of:

H;

5

substituted or unsubstituted phenyl, and

substituted or unsubstituted naphthalene;

$R^2$  is selected from the group consisting of:

H;

$C_1$ - $C_4$  alkyl

10

substituted or unsubstituted phenyl,

$NH_2$ ;

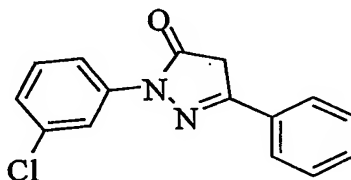
$CH_2COOCH_2CH_3$ ; and

$COOCH_2CH_3$ .

15

26. The method according to claim 25, wherein the compound

has the formula:

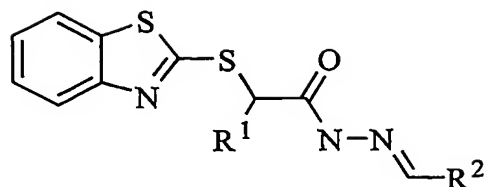


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27. The method according to claim 24, wherein the compound

has the formula:

- 47 -



wherein:

R<sup>1</sup> is selected from the group consisting of:

5

H and

C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sup>2</sup> is selected from the group consisting of:

C<sub>1</sub>-C<sub>4</sub> alkyl;

substituted or unsubstituted phenyl;

10

substituted or unsubstituted furan;

substituted or unsubstituted cyclohexyl;

substituted or unsubstituted naphthalene;

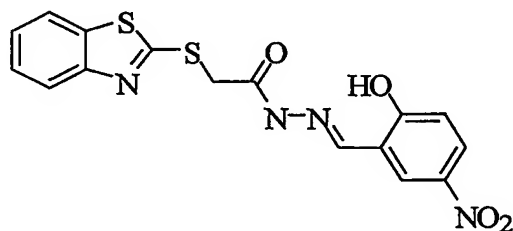
substituted or unsubstituted indol;

substituted or unsubstituted pyridine, and

15

substituted or unsubstituted thiophene.

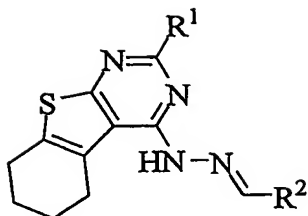
28. The method according to claim 27, wherein the compound has the formula:



20

29. The method according to claim 24, wherein the compound has the formula:

- 48 -



wherein:

R<sup>1</sup> is selected from the group consisting of:

H and

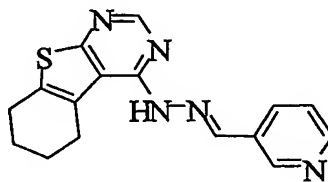
5 C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sup>2</sup> is selected from the group consisting of:

substituted or unsubstituted pyridine and

substituted or unsubstituted phenyl.

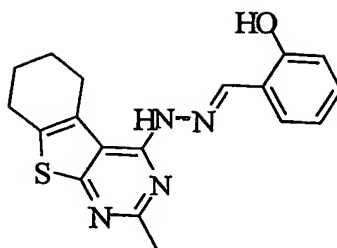
10 30. The method according to claim 29, wherein the compound has the formula:



15 31. The method according to claim 29, wherein the compound has the formula:

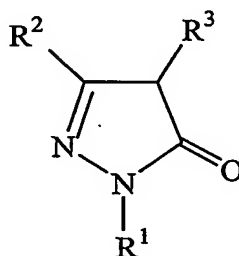


- 49 -



32. The method according to claim 24, wherein the compound has the formula:

5



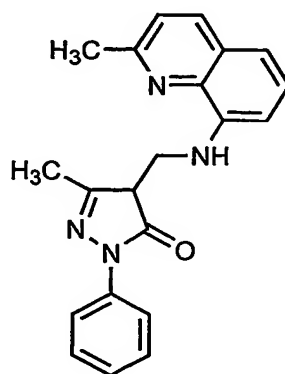
wherein:

$R^1$  is substituted or unsubstituted phenyl;

$R^2$  is  $C_1$ - $C_4$  alkyl; and

10  $R^3$  is substituted or unsubstituted quinoline with or without a linking group.

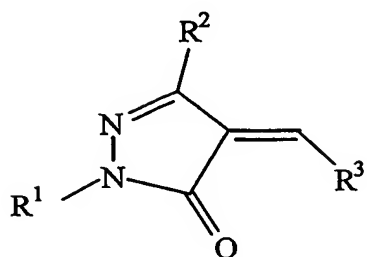
33. The method according to claim 32, wherein the compound has the formula:



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- 50 -

34. The method according to claim 24, wherein the compound has the formula:



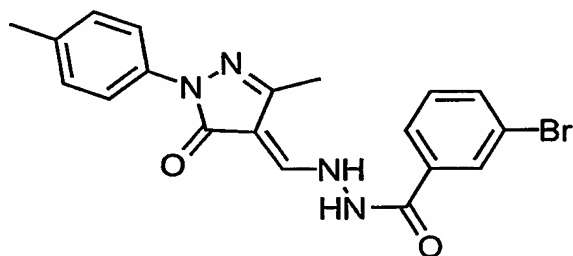
wherein:

R<sup>1</sup> is substituted or unsubstituted phenyl;

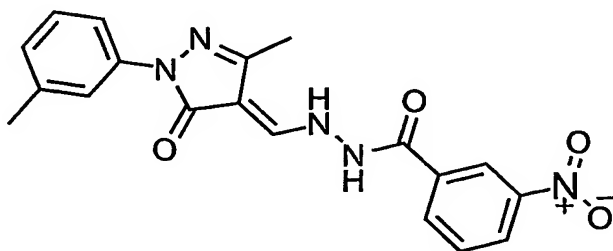
R<sup>2</sup> is C<sub>1</sub>-C<sub>4</sub> alkyl; and

R<sup>3</sup> is substituted or unsubstituted benzoylhydrazino.

35. The method according to claim 34, wherein the compound has the formula:

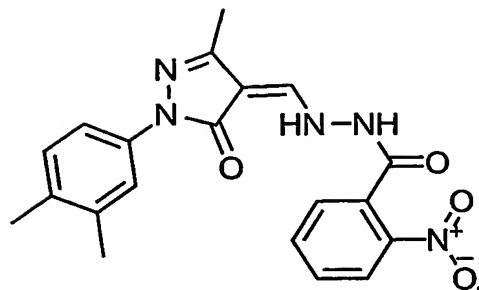


36. The method according to claim 34, wherein the compound has the formula:

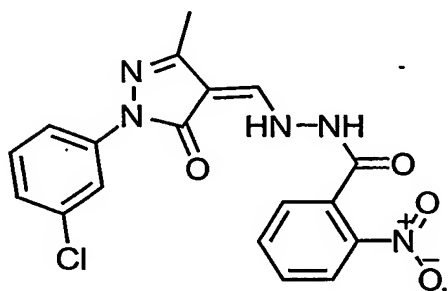


37. The method according to claim 34, wherein the compound has the formula:

- 51 -

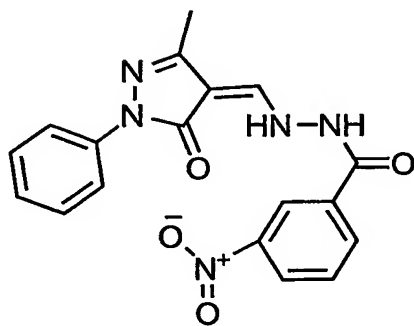


38. The method according to claim 34, wherein the compound has the formula:



5

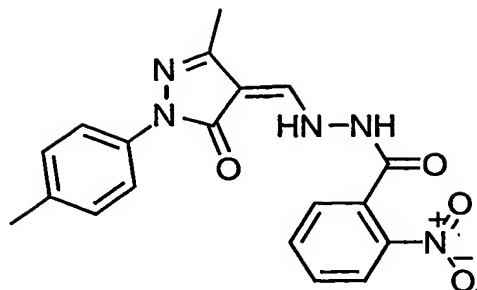
39. The method according to claim 34, wherein the compound has the formula:



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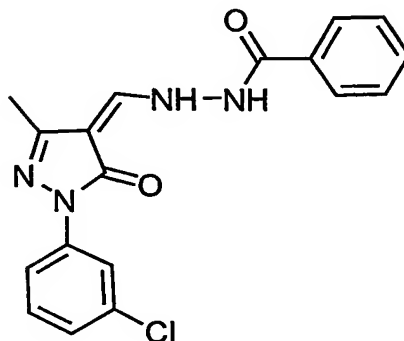
40. The method according to claim 34, wherein the compound has the formula:

- 52 -



41. The method according to claim 34, wherein the compound has the formula:

5



42. The method according to claim 24, wherein said contacting neutrophils is carried out *in vitro*.

10

43. The method according to claim 24, wherein said contacting neutrophils is carried out *in vivo*.

44. The method according to claim 24, wherein said contacting with a compound inhibits respiratory burst in adherent neutrophils triggered by an agent selected from the group consisting of a chemokine, a cytokine, bacteria, and a bacterial factor.

45. The method according to claim 44, wherein said contacting with a compound inhibits respiratory burst in adherent neutrophils triggered by a chemokine selected from the group consisting of macrophage inflammatory

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- 53 -

protein-1 (MIP-1), interleukin-8 (IL-8), and chemoattractant complement component C5a.

5                   46.     The method according to claim 44, wherein said contacting with a compound inhibits respiratory burst in adherent neutrophils triggered by a cytokine selected from the group consisting of tumor necrosis factor (TNF), lymphotoxin, granulocyte-specific colony stimulating factor (G-CSF), and granulocyte/macrophage-specific colony stimulating factor (GM-CSF).

10                   47.     The method according to claim 44, wherein said contacting with a compound inhibits respiratory burst in adherent neutrophils triggered by bacteria selected from the group consisting of whole bacteria, bacterial cell wall components, and secreted or shed bacterial products.

15                   48.     The method according to claim 44, wherein said contacting with a compound inhibits respiratory burst in adherent neutrophils triggered by a bacterial factor that is a soluble bacterial complement protein.